

SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1744.0450002APPLICATION NO.  
09/525,185INVENTORS  
Sorrells *et al.*FILING DATE  
March 14, 2000ART UNIT  
2634

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
CO	AB60	4,789,837	12/1988	Ridgers			
	AC60	5,634,207	05/1997	Yamaji <i>et al.</i>			
	AD60	5,642,071	06/1997	Sevenhans <i>et al.</i>			
	AE60	6,211,718 B1	04/2001	Souetinov			
	AF60	6,212,369 B1	04/2001	Avasarala			
	AG60	6,308,058 B1	10/2001	Souetinov <i>et al.</i>			
	AH60	6,633,194 B2	10/2003	Arnborg <i>et al.</i>			
	AI60	2001/0036818 A1	11/2001	Dobrovoly			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
CO	AM23	DE 692 21 098 T2	01/1998	DE			No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL	DOC. REF.	CITATION
	AN	
	AO	
	AP	
CP	AQ59	Hellwarth, G.A. and Jones, G.D, "Automatic Conditioning of Speech Signals," <i>IEEE Transactions on Audio and Electroacoustics</i> , Vol. AU-16, No. 2, pp. 169-179 (June 1968).
CO	AR59	English Abstract for German Patent No. DE 692 21 098 T2, 1 page, data supplied from the espacenet.

EXAMINER

Curtis Odom

DATE CONSIDERED

11/21/09

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FORM PTO-1449  SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT				ATTY. DOCKET NO. 1744.0450002		APPLICATION NO. 09/525,185	
				INVENTORS Sorrells <i>et al.</i>			
				FILING DATE March 14, 2000		ART UNIT 2634	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
C	AA61	6,873,836 B1	03/2005	Sorrells <i>et al.</i>	—	—	
	AB61	6,879,817 B1	04/2005	Sorrells <i>et al.</i>	—	—	
	AC61	6,057,714	05/2000	Andrys <i>et al.</i>	—	—	
	AD61	2003/0081781 A1	05/2003	Jensen <i>et al.</i>	—	—	
	AE61	5,994,689	11/1999	Charrier	—	—	
	AF61	6,512,544 B1	01/2003	Merrill <i>et al.</i>	—	—	
	AG61	6,628,328 B1	09/2003	Yokouchi <i>et al.</i>	—	—	
	AH61	6,801,253 B1	10/2004	Yonemoto <i>et al.</i>	—	—	
C	AI61	3,737,778	06/1973	Van Gerwen <i>et al.</i>			
<b>FOREIGN PATENT DOCUMENTS</b>							
EXAMINER INITIAL	DOC. REF.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
C	AJ24	DE 196 48 915 A1	06/1998	DE	—	—	Yes
	AK						Yes No
	AL						Yes No
	AM						Yes No
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
EXAMINER INITIAL	DOC. REF.	CITATION					
C	AN60	Deboo, Gordon J., <i>Integrated Circuits and Semiconductor Devices</i> , 2 <sup>nd</sup> Edition, McGraw-Hill, Inc., pp. 41-45 (1977).					
	AO						
	AP						
	AQ						
	AR						
EXAMINER Curtis Odum					DATE CONSIDERED 11/21/05		
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CO	AA62	4,286,283	08/1981	Clemens	—	—	
	AB62	4,241,451	12/1980	Maixner <i>et al.</i>	—	—	
	AC62	5,014,130	05/1991	Heister <i>et al.</i>	—	—	
	AD62	5,390,215	02/1995	Anita <i>et al.</i>	—	—	
	AE62	5,805,460	09/1998	Greene <i>et al.</i>	—	—	
	AF62	6,882,194 B2	04/2005	Belot <i>et al.</i>	—	—	
	AG62	6,892,062 B2	05/2005	Lee <i>et al.</i>	—	—	
	AH62	6,917,796 B2	07/2005	Setty <i>et al.</i>	—	—	
CO	AI62	6,920,311 B2	07/2005	Rofougaran <i>et al.</i>	—	—	

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	AM						Yes No

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CP	AA63	5,062,122	10/1991	Pham <i>et al.</i>	_____	_____	
	AB63	6,182,011 B1	01/2001	Ward	_____	_____	
	AC63	6,639,939 B1	10/2003	Naden <i>et al.</i>	_____	_____	
	AD63	4,441,080	04/1984	Saari	_____	_____	
	AE63	4,873,492	10/1989	Myer	_____	_____	
	AF63	5,697,074	12/1997	Makikallio <i>et al.</i>	_____	_____	
	AG63	5,784,689	07/1998	Kobayashi	_____	_____	
	AH63	6,335,656 B1	01/2002	Goldfarb <i>et al.</i>	_____	_____	
CO	AI63	6,690,232 B2	02/2004	Ueno <i>et al.</i>	_____	_____	

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CS	AA64	5,636,140	06/1997	Lee <i>et al.</i>	—	—	
	AB64	6,366,622 B1	04/2002	Brown <i>et al.</i>	—	—	
	AC64	6,600,795 B1	07/2003	Ohta <i>et al.</i>	—	—	
	AD64	4,250,458	02/1981	Richmond <i>et al.</i>	—	—	
	AE64	5,760,629	06/1998	Urabe <i>et al.</i>	—	—	
	AF64	6,084,465	07/2000	Dasgupta	—	—	
	AG64	6,204,789 B1	03/2001	Nagata	—	—	
	AH64	6,064,054	05/2000	Waczynski <i>et al.</i>	—	—	
CS	AI64	5,218,562	06/1993	Basehore <i>et al.</i>	—	—	

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CO	AA65	5,239,496	08/1993	Vancraeynest	—	—	
	AB65	5,896,304	04/1999	Tiemann <i>et al.</i>	—	—	
	AC65	6,005,903	12/1999	Mendelovicz	—	—	
	AD65	5,834,979	11/1998	Yatsuka	—	—	
CO	AE65	6,798,351 B1	09/2004	Sorrells <i>et al.</i>	—	—	
	AF						
	AG						
	AH						
	AI						

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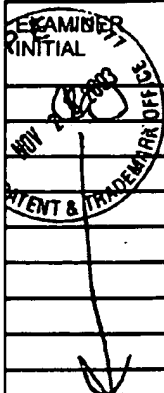
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB50	5,633,815	05/1997	Young			
	AC50	3,246,084	04/1966	Kryter			
	AD50	3,702,440	11/1972	Moore			
	AE50	3,767,984	10/1973	Shinoda et al.			
	AF50	3,852,530	12/1974	Shen			
	AG50	4,220,977	09/1980	Yamanaka			
	AH50	5,016,242	05/1991	Tang			
	AI50	5,937,013	08/1999	Lam et al.			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AJ						
	AK						
CO	AL19	EP 0 254 844 A2	02/1988	EP			N/A
CO	AM19	EP 0 632 577 A1	01/1995	EP			N/A

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN		
Co	AO	56	Translation of Japanese Patent Publication No. 60-130203, 3 pages (July 11, 1985- Date of publication of application).
Co	AP	56	Razavi, B., "A 900-MHz/1.8-GHz CMOS Transmitter for Dual-Band Applications," <i>Symposium on VLSI Circuits Digest of Technical Papers</i> , IEEE, pp. 128-131 (1998).
Co	AQ	56	Ritter, G.M., "SDA, A New Solution for Transceivers," <i>16th European Microwave Conference</i> , Microwave Exhibitions and Publishers, pp. 729-733 (September 8, 1986).
Co	AR	56	DIALOG File 351 (Derwent WPI) English Language Patent Abstract for FR 2 669 787, 1 page (May 29, 1992- Date of publication of application).

EXAMINER Curtis OdomDATE CONSIDERED 4/2/04

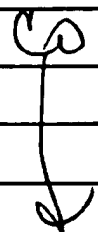
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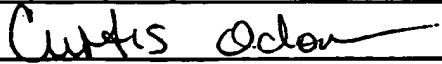
EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
NOV 25 2003 RECEIVED TECHNOLOGY CENTER 2600 PATENT & TRADEMARK OFFICE	AA51	6,014,551	01/2000	Pesola <i>et al.</i>	1	1	
	AB51	6,073,001	06/2000	Sokoler	1	1	
	AC51	6,085,073	07/2000	Palermo <i>et al.</i>	1	1	
	AD51	6,400,963 B1	06/2002	Glöckler <i>et al.</i>	1	1	
	AE51	6,230,000 B1	05/2001	Taylor	1	1	
	AF51	5,483,695	01/1996	Pardoen	1	1	
	AG51	6,542,722 B1	04/2003	Sorrells <i>et al.</i>	1	1	
	AH51	6,560,301 B1	05/2003	Cook <i>et al.</i>	1	1	
AI51	6,098,046	08/2000	Cooper <i>et al.</i>	1	1		

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
		AJ20	JP 60-130203	07/1985	JP		Yes (Doc. AO56)
		AK20	DE 196 27 640 A1	01/1997	DE		No
		AL20	EP 0 087 336 A1	08/1983	EP		No
		AM20	EP 0 087 336 B1	07/1986	EP		No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

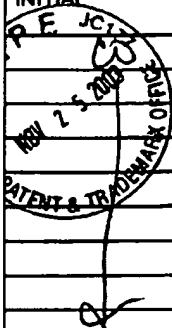
	AN	57	Akos, D.M. et al., "Direct Bandpass Sampling of Multiple Distinct RF Signals," <i>IEEE Transactions on Communications</i> , IEEE, Vol. 47, No. 7, pp. 983-988 (July 1999).
	AO	57	Patel, M. et al., "Bandpass Sampling for Software Radio Receivers, and the Effect of Oversampling on Aperture Jitter," <i>VTC 2002, IEEE</i> , pp. 1901-1905 (2002).
	AP	57	English-language Abstract of Japanese Patent Publication No. 61-030821, from <a href="http://www1.ipdl.jpo.go.jp">http://www1.ipdl.jpo.go.jp</a> , 1 Page (February 13, 1986- Date of publication of application).
	AQ	57	English-language Abstract of Japanese Patent Publication No. 05-327356, 1 from <a href="http://www1.ipdl.jpo.go.jp">http://www1.ipdl.jpo.go.jp</a> , Page (December 10, 1993 - Date of publication of application).
	AR	57	Taylor, D., "A Low-noise, High-performance Zero IF Quadrature Detector/Preamplifier," <i>RF Design</i> , Primedia Business Magazines & Media, Inc., pp. 58, 60, 62 and 69 (March 2003).

EXAMINER 	DATE CONSIDERED 4/22/04
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	AA52	5,564,097	10/1996	Swanke			
	AB52	5,898,912	04/1999	Heck et al.			
	AC52	4,660,164	04/1987	Leibowitz			
	AD52	6,580,902 B1	06/2003	Sorrells et al.			
	AE52	4,857,928	08/1989	Gailus et al.			
	AF52	5,389,839	02/1995	Heck			
	AG52	5,471,665	11/1995	Pace et al.			
	AH52	6,327,313 B1	12/2001	Traylor et al.			
	AI52	5,751,154	05/1998	Tsugai			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ21	EP 0 789 449 A2 & A3	08/1997	EP			N/A
	AK21	FR 2 669 787 A1	05/1992	FR			No
	AL21	GB 2 324 919 A	11/1998	GB			N/A
	AM21	JP 61-30821	02/1986	JP			No

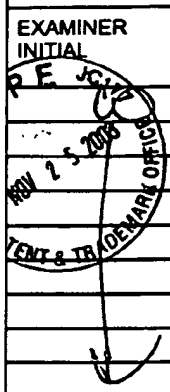
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AN	58	Dines, J.A.B., "Smart Pixel Optoelectronic Receiver Based on a Charge Sensitive Amplifier Design," <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , IEEE, Vol. 2, No. 1, pp. 117-120 (April 1996).
	AO	58	Simoni, A. et al., "A Digital Camera for Machine Vision," <i>20th International Conference on Industrial Electronics, Control and Instrumentation</i> , IEEE, pp. 879-883 (September 1994).
	AP	58	Stewart, R.W. and Pfann, E., "Oversampling and sigma-delta strategies for data conversion," <i>Electronics &amp; Communication Engineering Journal</i> , IEEE, pp. 37-47 (February 1998).
	AQ	58	Rudell, J.C. et al., "A 1.9-GHz Wide-Band IF Double Conversion CMOS Receiver for Cordless Telephone Applications," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. 32, No. 12, pp. 2071-2088 (December 1997).
	AR	58	English-language Abstract of Japanese Patent Publication No. 09-036664, from <a href="http://www1.ipdl.jpo.go.jp">http://www1.ipdl.jpo.go.jp</a> , 2 Pages (February 7, 1997 - Date of publication of application).

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		AA54	5,790,587	08/1998	Smith <i>et al.</i>	—	RECEIVED NOV 26 2003 Technology Center 2600
		AB54	4,740,675	04/1988	Brosnan <i>et al.</i>	—	
		AC54	5,483,600	01/1996	Werrbach	—	
		AD54	6,011,435	01/2000	Takeyabu <i>et al.</i>	—	
		AE54	6,321,073 B1	11/2001	Luz <i>et al.</i>	—	
		AF54	6,026,286	02/2000	Long	—	
		AG54	6,178,319 B1	01/2001	Kashima	—	
		AH54	6,634,555 B1	10/2003	Sorrells <i>et al.</i>	—	
		AI54	3,736,513	05/1973	Wilson	—	

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Co	AJ23	WO 00/31659 A1	06/2000	PCT			N/A
Co	AK23	JP 9-36664	02/1997	JP			No
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	AM						

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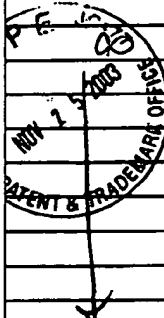
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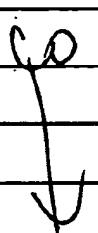
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	AA53	5,793,817	08/1998	Wilson	—	—	<b>RECEIVED</b> <b>NOV 26 2003</b> <b>Technology Center 2600</b>
	AB53	6,225,848 B1	05/2001	Tilley et al.	—	—	
	AC53	6,313,685 B1	11/2001	Rabii	—	—	
	AD53	3,614,627	10/1971	Runyan et al.	—	—	
	AE53	3,940,697	02/1976	Morgan	—	—	
	AF53	4,016,366	04/1977	Kurata	—	—	
	AG53	4,045,740	08/1977	Baker	—	—	
	AH53	4,115,737	09/1978	Hongu et al.	—	—	
	AI53	5,710,992	01/1998	Sawada et al.	—	—	

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	AJ22	JP 5-327356	12/1993	JP	—	—	No
	AK22	EP 0 643 477 A2 & A3	03/1995	EP	—	—	N/A
	AL22	EP 0 877 476 A1	11/1998	EP	—	—	N/A
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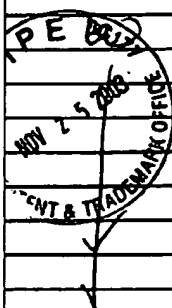
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EXAMINER <u>Curtis Odon</u>	DATE CONSIDERED <u>7/2/04</u>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449  <u>SECOND SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1744.0450002	APPLICATION NO. 09/525,185
	APPLICANTS Sorrells et al.	
	FILING DATE March 14, 2000	GROUP 2634

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AH						
AI							

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						
	AK						
	AL						
	AM						

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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EXAMINER <i>Curtis Odom</i>	DATE CONSIDERED <i>4/2/04</i>
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FORM PTO-1449

ATTY. DOCKET NO.  
1744.0450002APPLICATION NO.  
09/525,185FIFTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

INVENTORS

Sorrells *et al.*

FILING DATE

March 14, 2000

ART UNIT

2634

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
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	AE						
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CP	AG58	6,813,485 B2	11/2004	Sorrells <i>et al.</i>	—	—	
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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EXAMINER

Curtis Odor

DATE CONSIDERED

0/2/05

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FORM PTO-1449

ATTY. DOCKET NO.

1744.0450002

APPLICATION NO.

09/525,185

FIFTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

INVENTORS

Sorrells *et al.*

FILING DATE

March 14, 2000

ART UNIT

2634

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CP	AA59	5,982,329	11/1999	Pittman <i>et al.</i>	—	—	
CP	AB59	6,208,636 B1	03/2001	Tawil <i>et al.</i>	—	—	
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AK						Yes No
	AL						Yes No
	AM						Yes No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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EXAMINER

Curtis Adon

DATE CONSIDERED

6/22/05

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FORM PTO-1449

ATTY. DOCKET NO.  
1744.0450002APPLICATION NO.  
09/525,185FIFTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

INVENTORS

Sorrells et al.

FILING DATE  
March 14, 2000ART UNIT  
2834

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
CB	AA60	6,853,690 B1	02/2005	Sorrells et al.			
	AB						
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	AF						
	AG						
	AH						
	AI						

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AJ						Yes No
	AK						Yes No
	AL						Yes No
	AM						Yes No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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EXAMINER

Curtis Odem

DATE CONSIDERED

3/22/08

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# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

AUG 30 2004

Title of Invention

Spread Spectrum Applications of Universal Frequency Translation

Application Number: 09/525185

Confirmation Number: 8068

First Named Applicant: David SORRELLS

Attorney Docket Number: 1744.0450002

Art Unit: 2634

Examiner: Curtis B. Odom

Search string: ( 5682099 or 6094084 or 6067329 or 6516185 or 6687493 or 6694128 or 6704549 or 6704558 or 5490176 or 5970053 or 6078630 or 6600911 or 5179731 or 5589793 or 4510467 or 4772853 or 4972436 or 5012245 or 5422909 or 5440311 or 5926513 or 5995030 or 6047026 or 6049573 or 6076015 or 6144331 or 6018553 or 6317589 or 5058107 or 5757858 or 6531979 or 6018262 or 4761798 or 6151354 or 6169733 or 6363262 or 6697603 or 5282222 or 5949827 or 6014176 or 5678226 or 5760632 or 6160280 or 5481570 or 5745846 or 4132952 or 5260973 or 6307894 or 6091289 or 6437639 or 20020037706 ).pn.



## US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
<input checked="" type="checkbox"/>	1	5682099	1997-10-28	Thompson et al.			
<input type="checkbox"/>	2	6094084	2000-07-25	Abou-Allam et al.			
<input type="checkbox"/>	3	6067329	2000-05-23	Kato et al.			
<input type="checkbox"/>	4	6516185	2003-02-04	MacNally	B1		
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SUB\_TYPE=Information\_Disclosure\_Statement EFS\_ID=67637 APP\_ID=09525185 DOC\_TYPE=us-ids



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## US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
10	1	20020037706	2002-03-28	Ichihara	A1		

## Remarks

Note: Remarks are not for responding to an office action.

Patent Cite nos. 1 and 2 were cited in an Office Action in related U.S. Patent Application No. 10/317,181, filed December 12, 2002, entitled "Differential Frequency Down-Conversion Using Techniques of Universal Frequency Translation Technology," directed to related subject matter. Patent Cite nos. 3, 4, 44, and 45 were cited in an Office Action in related U.S. Patent Application No. 10/317,165, filed December 12, 2002, entitled "Method and Apparatus for Reducing DC Offsets in Communication Systems Using Universal Frequency Translation Technology," directed to related subject matter. Patent Cite nos. 5-8 are co-owned patents which are directed to related subject matter. Patent Cite nos. 5-8 and 33 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/838,387, filed April 20, 2001, entitled "Method and System for Down-Converting and Up-Converting an Electromagnetic Signal, and Transforms for Same," directed to related subject matter. Also cited in said Notice of Allowance were U.S. Patent Nos. 5,937,013, 6,061,551, and 6,647,250, which have already been cited in the present application. Patent Cite nos. 6, 7, 47 and 48 were cited in a Notice of Allowance in related U.S. Patent Application No. 09/525,615, filed March 14, 2000, entitled "Method, System and Apparatus for Balanced Frequency Up-Conversion of a Baseband Signal and 4-Phase Receiver and Transceiver," directed to related subject matter. Also cited in said Notice of Allowance were U.S. Patent Nos. 6,091,940 and 6,370,371, which have already been cited in the present application. Patent Cite nos. 9-12 were cited in an Office Action in related U.S. Patent Application No. 09/567,978, filed May 10, 2000, entitled "Carrier and Clock Recovery Using Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,937,013, which has already been cited in the present application. Patent Cite nos. 13 and 14 were cited in a Notice of Allowance in related U.S. Patent Application No. 10/330,219, filed December 30, 2002, entitled "Methods and Systems for Down-Converting Electromagnetic Signals, and Applications Thereof," directed to related subject matter. Patent Cite nos. 15-26 were cited in an Office Action in related U.S. Patent Application No. 09/566,188, filed May 5, 2000, entitled "Integrated Frequency Translation and Selectivity with Gain Control Functionality, and Applications Thereof," directed to related subject matter. Patent Cite nos. 27 and 28 were cited in an Office Action in related U.S. Patent Application No. 09/632,856, filed August 4, 2000, entitled "Wireless Local Area Network (WLAN) Using Universal Frequency Translation Technology Including Multi-Phase Embodiments and Circuit Implementation," directed to related subject matter. Patent Cite nos. 29-31 were cited in an Office Action in related U.S. Patent Application No. 09/569,044, filed May 10, 2000, entitled "Universal Platform Module and Methods and Apparatuses Relating Thereto Enabled by Universal Frequency Translation Technology," directed to related subject matter. Also cited in said Office Action were U.S.

Patent Nos. 2,057,613; 2,241,078; 2,283,575; 2,358,152; 2,410,350; 2,451,430; 2,472,798; 4,653,117; and 5,241,561, which have already been cited in the present application. Patent Cite no. 32 was cited in an Office Action in related U.S. Patent Application No. 10/289,377, filed November 7, 2002, entitled "Method and Apparatus for Reducing DC Offsets in a Communication System," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,471,665; 5,793,817; and 5,898,912, which have already been cited in the present application. Patent Cite nos. 34-37 were cited in an Office Action in related U.S. Patent Application No. 09/569,045, filed May 10, 2000, entitled "Methods and Apparatuses Relating to a Universal Platform Module and Enabled by Universal Frequency Translation Technology," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,339,459 and 5,557,641, which have already been cited in the present application. Patent Cite nos. 38-40 were cited in an Office Action in related U.S. Patent Application No. 09/590,955, filed June 9, 2000, entitled "Phase-Shifting Applications of Universal Frequency Translation," directed to related subject matter. Also cited in said Office Action was U.S. Patent No. 5,339,459, which has already been cited in the present application. Patent Cite nos. 41-43 were cited in an Office Action in related U.S. Patent Application No. 09/550,642, filed April 14, 2000, entitled "Method and System for Down converting an Electromagnetic Signal, and Transforms for Same," directed to related subject matter. Patent Cite no. 46 was cited in an Office Action in related U.S. Patent Application No. 09/476,093, filed January 3, 2000, entitled "Communication System Method with Multi-Mode and Multi-Band Functionality and Embodiments Thereof, Such as the Family Radio Service," directed to related subject matter. Also cited in said Office Action were U.S. Patent Nos. 5,937,013 and 5,790,587, which have already been cited in the present application. Patent Cite nos. 49 and 50, and Published Application cite no. 1 were cited in a Written Opinion in related PCT Application No. PCT/US03/16403, filed May 27, 2003, entitled "Method and Apparatus for DC Offset Removal in a Radio Frequency Communication Channel," directed to related subject matter.

Signature

Examiner Name	Date